# LARGE FRAME SNOWTHROWERS

with Power Boost

Sno-Away 860

860S 860SE



# PARTS MANUAL

## Product Identification: When ordering parts, keep your products serial number and manufacturer's number in mind. Variations may occur in a part between early & later model products, causing the product serial number to be listed in the parts description whenever these variations occur. Record your I.D. numbers here for quick, future reference. Mower Mfg. No. \_\_\_\_\_ S/N \_\_\_ \_\_\_\_ S/N\_ Product Mfg. No. Attention: Standard torques appear in a chart at the end of the manual, while important individual torques are given on specific parts drawings. CRITICAL and MAJOR notations point out important facts or instructions which relate to personal safety and proper machine operation. Any CRITICAL notation which may appear in this book, pinpoints characteristics which, if not properly followed, can create a safety hazard. Any MAJOR notation M which may appear in this book, marks characteristics which, if not properly followed, may result in operating failure, shortened product life, or greatly reduced quality of the unit. For your convenience, assembly notes are included in parts drawings to assist in repair and assembly of unit. SIMPLICITY BRAND PRODUCTS OILS - SPECIFICALLY BLENDED OF HIGH QUALITY BASE TOUCH-UP PAINT keeps equipment in showroom condition.

OILS & ADDITIVES.

Special Worm Gear Oil: Required for protection of brase gears and mating parts.

 Cold Weather Worm Gear Oil for snowthrowers with worm. gear drive. 8 Oz. Bottle, Part #1704636, Case of 12-8 Oz. Sottles, Part #1685406.

Multi-Purpose Hydraulic/Transmission Oil for use in most hydraulic applications, and hydrostatic transmissions. Specific Simplicity applications: All hydrostatic transmissions, all bevel gear cases. Case of 12 Quarts, Part #1685516, 2-1/2 Gallon Container, Part #1685539.

SAE 5W-30 SF/CD Cold Weather Engine Oil for use in all four cycle and diesel engines at 30° temp, and under. Case of 12 quarts, Part #1685576.

SAE 15W-40 SF/CD Engine Oil for gas and diesel engines, warm weather; see engine manufacturer recommendations. Case of 12 quarts, Part #1685554.

SAE 30W SG/CC Detergent Engine Oil for use in four cycle lawn. and garden engines at operating temp, of 32° and above. Also recommended for use in hydrostatic transmissions where 30W oil is specified. Case of 12 quarts, Part #1685659.

DEGREASER, DEGRIMER, PARTS CLEANER removes grease, oil, dirt and grime without harming paint or decals.

1 Quart w/Trigger Spray

1685619 1685621

1685623

1 Gallon Bottle

Extension Sprayer for

Gallon Bottle

Spray Cans	Quarts	Daubers-12 Per Ctn.
For Products Buitt After 8	3/1/89.	
"Deep Orange" 13 Oz. Can 1685611 Case 12 Cans 1685614	1685612	1685616 Mixed 6 Deep Or., 6 White 1/2 Oz. Sottles
"Gloss Black" 13 Oz. Can 1685639 Case 12 Cans 1685640	1685641	N/A
"White" 13 Oz. Can 103049 Case 12 Cans 1685178	1685032	See Above

Consuit decai on equipment for proper color.

#### AVAILABLE ACCESSORIES:

DESIGNER SEAT COVERS are double stitched, easy care vinyl. Keeps new seats new, makes worn seats look new.

Small Seat Cover w/Pocket, Part #1685540. Fits all Rear Engine Riders, FC, RT Series Tractors.

Large Seat Cover w/Pocket, Part #1685541. Fits all 12.5 & 16 LT and GT Series Tractors.

Seat Cover, Part #1685577. Fits all 18 & 20 GTH Tractors.

PNEUMATIC TIRE SEAL seals all leaks including bead leaks and punctures up to 3/16 inch diameters. Prevents flats for tread life of tire. Available in following amounts.

> Case of 12 -11 Oz. Tubes 1685537 Case of 24 -11 Oz. Tubes 1685525 5 Gallon Pall 1685527

HOUR METER KIT, Part #1685510.

GREASE GUN KIT has 12" flexible hose to get into tight spots with ease. Kit contains: gun and 1-8 Oz. tube of grease. Part #1685510. For replacement tube, order Part #103077.

CHROME "Moon" Hubcaps

4" Rim	163114
6" Rim	156210
8" Rim	156211
10" Rim	1667782
12" Rim	154505

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TORQUE SPECIFICATION CHART	Inside Back Cover

Included in this parts book are the following Manufacturer's Numbers.

SNO-AWAY 860 SNOWTHROWER MFG. NO. 1691900 MFG. NO. 1691946

MODEL 860SE SNOWTHROWER MFG. NO. 1691777 MFG. NO. 1691900

MODEL 860S SNOWTHROWER MFG. NO. 1691778 MFG. NO. 1691946

HEADLIGHT KIT MFG. NOS. 1685459, 1691827

THE "PROTECTOR" SNOW CAB MFG. NO. 1690681

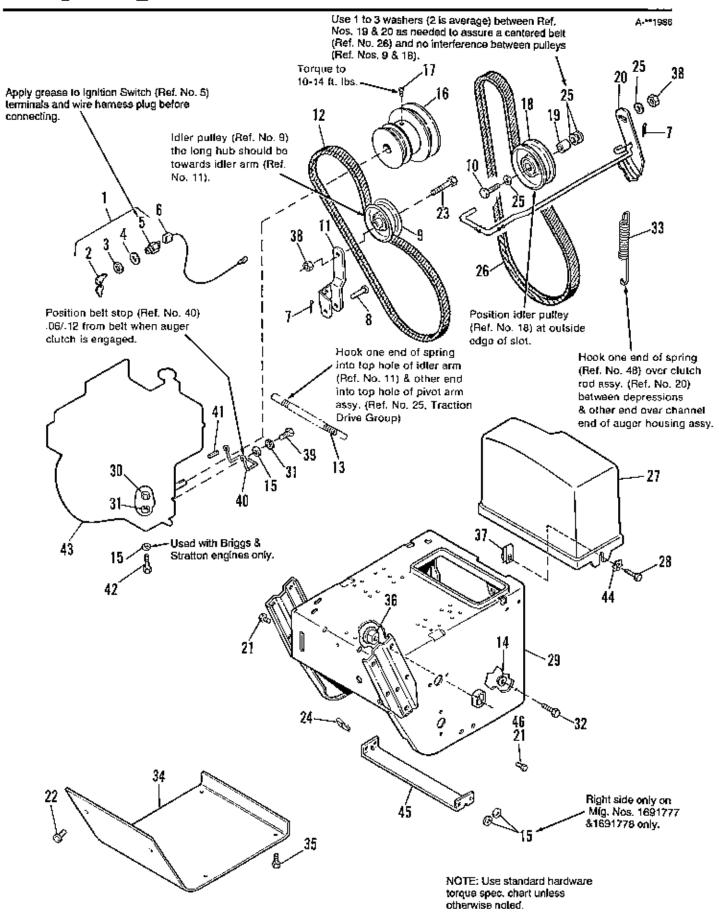
> DRIFT CUTTER KIT MFG. NO. 1685189

\*8 HP ELECTRIC STARTER (TECUMSEH ENGINE) MFG. NO. 1690385

\*SOFT CAB OR CANVAS CAB MFG. NO. 1691780

<sup>\*</sup>Order Wholegoods number and see your local Tecumseh dealer for parts and service.

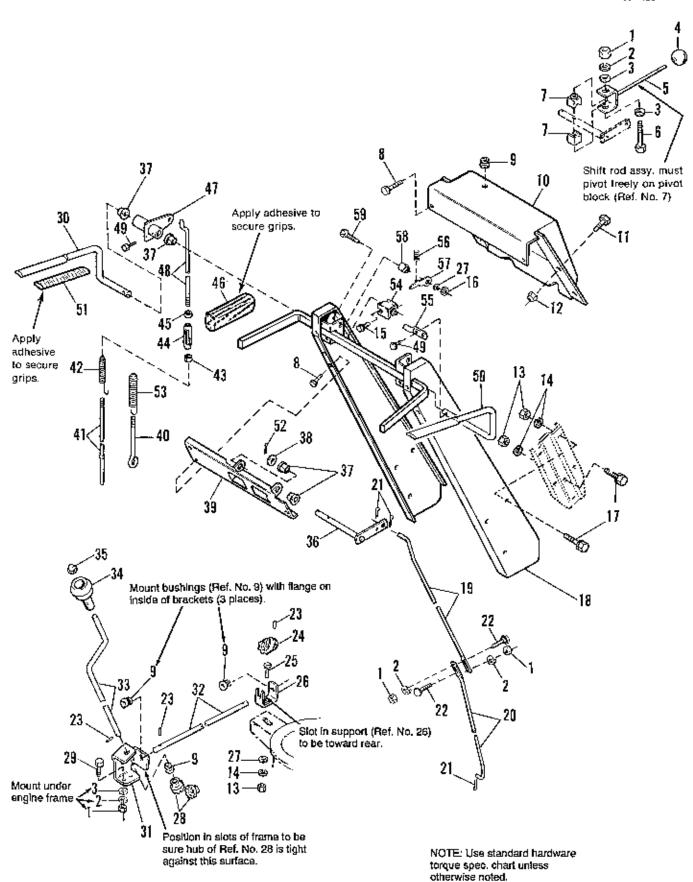




Ref. No.	Part No.	Qty.	Description
1	177163	1	SWITCH, Key (Inc. Ref. Nos. 2, 3, 4 & 5) (Electric Start only)
2	122203	1	KEYS (Electric Start only)
3	122234	1	NUT, Hex, 5/8-32 (Electric Start only)
4	918906	1	LOCKWASHER, Int. 5/8 (Electric Start only)
5		1	SWITCH (See Ref No. 1) (Electric Start only)
6	1667700	1	WIRE, Ground (Electric Start only)
7	1918451	2	PIN, Cotter, 1/8 x 3/4
8	1665994	1	PIN
9	1668477	1	PULLEY, Idler
10	1921971	2	CAPSCREW, Hex Hd., 3/8-16 x 1-3/4
11	1703046	1	ARM, Idler, Traction
12	1672732	1	BELT, Traction (Electric Start only)
13	1676461	1	BELT, Traction (Manual Start only)
14	1672735 1927557	1	SPRING, (dier
15	1919326	4	NUT, Hex, Whizlock, 5/16-18
16	1666109	2 1	WASHER, Flat, 11/32 (Qty. 6 on Electric Start)
Iu	1676493	1	PULLEY, Engine (Electric Start only)
17	1930540	1	PULLEY, Engine (Manual Start only)
18	1708030	1	SETSCREW, Socket Hd., 5/16-18 x 5/8 PULLEY ASSY.
19	157081	ί	SPACER
20	1612200	1	CLUTCH ROD & BRAKE ASSY.
21	1664847	4	SCREW, Taptite, 5/16-18 x 3/8
22	1927429	2	SCREW, Taptite, 1/4-20 x 5/8
23	<del>-</del>	ī	CAPSCREW, Hex Hd., 3/8-16 x 1-3/4 (1691900 &
		·	1691946)
24	1926018	6	NUT, Speed, 1/4-20
25	1924940	3	WASHER, Flat, 13/32
26	1666655	1	BELT, Auger Drive (Electric Start only)
	1676460	1	BELT, Auger Drive (Manual Start only)
27	1667516	1	GUARD, Belt
28	1918249	2	SCREW, Truss Hd., 5/16-18 x 3/4
29	1612458	1	FRAME, Main
30	1931277	4	NUT, Hex, 5/16-18
31	1917356	2	LOCKWASHER, 5/16
32	1930591	4	CAPSCREW, Whizlock, 5/16-18 x 3/4
33	1701595	1	SPRING, Brake
34	1666374	1	COVER, Bottom
35	1927428	4	SCREW, Tapttite, 1/4-20 x 3/8
36	1666001	2	BUSHING, Axle
37	935255	2	NUT, Pal, 5/16-18
38	1928731	2	LOCKNUT, Jam, 3/8-16
39 40	1921515	2	CAPSCREW, Hex. Hd., 5/16-24 x 3/4
40	1668174	1	BELT STOP (Electric Start only)
41	1676494 8221042	1	BELT STOP (Manual Start only)
	905856	1	KEY, 3/16 x 3/16 x 1-1/2 (Electric Start only)
42	1922127	4	KEY, 1/4 x 1/4 x 1-1/2 (Manual Start only)
42	1922121	4	CAPSCREW, Hex Hd., 5/16-18 x 1-3/4 (Electric Start only)
	1921978	4	CAPSCREW, Hex Hd., 5/16-18 x 2 (Manual Start only)
43	See Note	1	ENGINE, Tecumseh, 8 H.P.
	Below	•	Electric Start
	20.511	1	ENGINE, Briggs & Stratton, 8 H.P. Manual Start
44	1920426	2	LOCKWASHER, Ext. Toolh, 5/16
45	1669198	1	SUPPORT, Tie Bar
46	1928729	4	SCREW, Taptite, 5/16-18 x 3/8 (1691777 &1691778)
-		_	d Weather Engine Oil, Part #1685576 (12 qts./case)

NOTE: Use Simplicity SAE-5W-30 Cold Weather Engine Oil, Part #1685576 (12 qts./case)

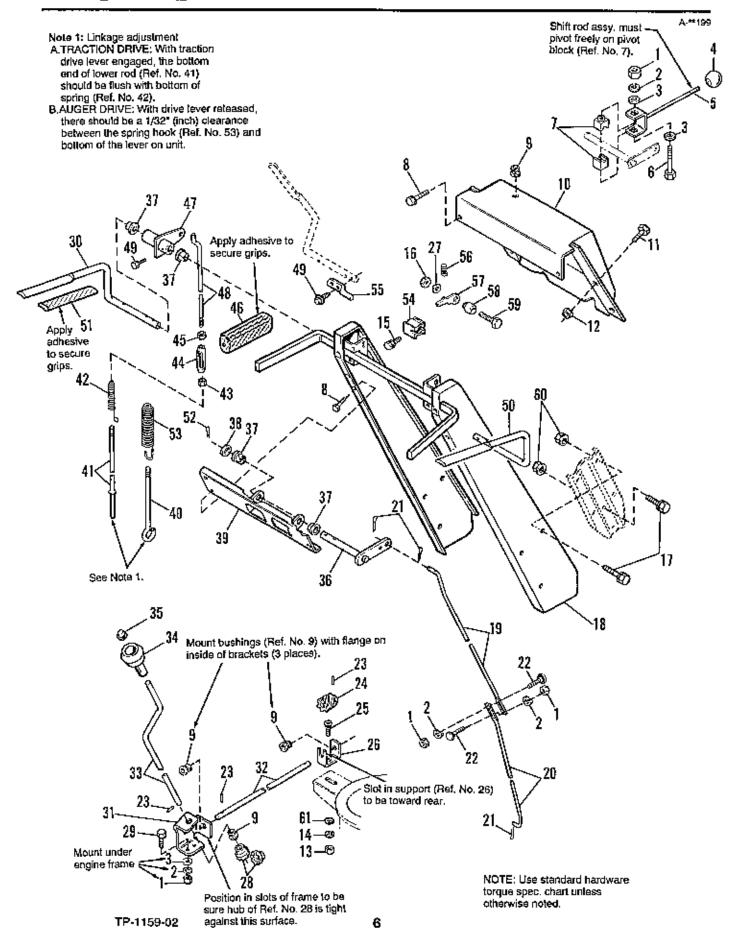
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Ref.	Part			
No.	No.	Qty.	Description	
1	1916622	5	NUT, Hex, 1/4-20	
2	1916964	5	LOCKWASHER, 1/4	
3	1921319	4	WASHER, Flat, 9/32	
4	8021050	1	KNOB	
5	1668523	1	SHIFT ROD ASSY.	
6	1921159	1	CAPSCREW, Hex Hd., 1/4-20 x 2-1/4	
7	1668524	2	BLOCK, Pivot	
8	1925003	6	SCREW, Taptite, 1/4-20 x 1/2	
9	1667588	4	BUSHING, Plastic	
10	1667800	1	DASH, Handle	
11	1935450	4	CAPSCREW, Washer Hd., 1/4-20 x 3/4	
12	1920397	4	NUT, Nylon Lock, 1/4-20	
13	1917372	7	NUT, Hex, 5/16-18	
14	1917356	7	LOCKWASHER, 5/16	
15	1928732	1	SCREW, Taptite, #10-24 x 1	
16	1923362	1	NUT, Hex Lock, 5/16-18	
17	1930591	6	CAPSCREW, Whizlock, 5/16-18 x 3/4	
18	1705825	1	HANDLE ASSY.	
19	1666256	1	ROD, Shift, Upper	
20	1666255	1	ROD, Shift, Lower	
21 22	1918447	3 2	PIN Cotter	
23	1931317 916168	3	BOLT, Carriage, 1/4-20 x 3/4	
24	1668186	ა 1	PIN, Roll, 1/8 x 3/4	
25	1931333	1	WORM, Chute	
26	1611911	1	6OLT, Carriage, 5/16-18 x 3/4 SUPPORT, Worm	
27	1919326	2	WASHER, Flat, 11/32	
28	1668188	2	GEAR, Universal	
29	1930594	2	CAPSCREW, Hex Hd., 1/4-20 x 3/4	
30	1704170	1	HANDLE, Clutch, L.H.	
31	1611910	1	SUPPORT, Universal Gear	
32	1668187	i	ROD, Chute Worm	
33	1668189	1	ROD, Chute Control	
34	1668190	1	KNOB, Spinner	
35	1960093	1	PALNUT	
36	1674567	1	PIVOT ROD ASSY.	
37	1668185	5	BUSHING, Plastic	
38	1924361	1	WASHER	
39	1668050	1	BRACKET, Shift Control	
40	1668525	1	ROD, Clutch-Lower, Auger	
41	1668526	1	ROD, Clutch-Lower, Traction	
42	1668527	1	SPRING	
43	1916621	2	NUT, Hex, #10-24, R.H.	
44	108775	2	TURNBUCKLE	
45 46	928704	2	NUT, Hex, #10-24, L.H.	
46	1671041	2	GRIP, Handle Bar	
47	1704255	2	CLUTCH LEVER ASSY.	
<b>48</b> 49	1668121 1612432	2	ROD, Clutch-Upper	
50	1704172	4 1	SCREW, Taptite, #10-24 x 1	
51	1668608	2	HANDLE, Clutch R.H.	
52	1918452	1	GRIP, Clutch PIN, Cotter, 1/8 x 1	
53	1669323	1		
54	1704697	i	SPRING, Extension GUIDE, Control	
55	1677453	i	ROD, Control	
56	1701342	i	SPRING	
57	1677454	i	LATCH, Control	
58	1678579	i	SPACER, Special	
59	1921221	i	CAPSCREW, Hex Hd., 5/16-18 x 1-1/2	
	. 7 2 - 1	•	57 11 0011E11, 110A 1147, 9/10-10 X 1-1/2	







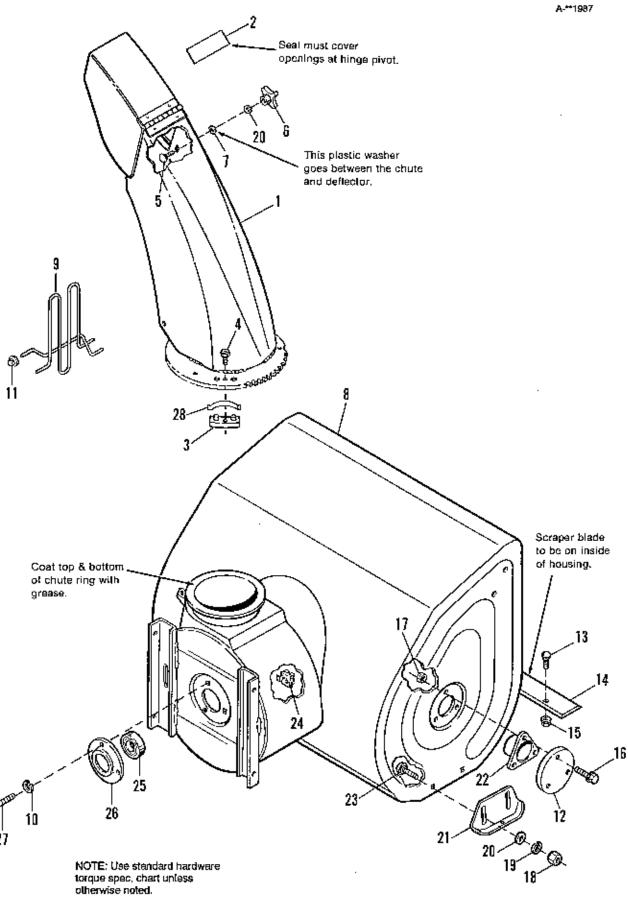
Ref.	Part		
No.	No.	Qty.	Description
1	1916622	5	NUT, Hex, 1/4-20
2	1916964	Š	LOCKWASHER, 1/4
3	1921319	4	WASHER, Flat, 9/32
4	8021050	1	KNOB
5	1668523	1	SHIFT ROD ASSY.
6	1921159	1	CAPSCREW, Hex Hd., 1/4-20 x 2-1/4
7	1668524	2	BLOCK, Pivot
8	1925003	6	SCREW, Taptite, 1/4-20 x 1/2
9	1667568	4	BUSHING, Plastic
10	1667800	1	DASH, Handle
11	1935450	4	CAPSCREW, Washer Hd., 1/4-20 x 3/4
12	1920397	4	NUT, Nylon Lock, 1/4-20
13	1917372	7	NUT, Hex, 5/16-18
14	1917356	7	LOCKWASHER, 5/16
15	1928732	1	SCREW, Taptite, #10-24 x 1
16	1923362	1	NUT, Hex Lock, 5/16-18
17	1930591	6	CAPSCREW, Whizlock, 5/16-18 x 3/4
18	1705825	1	HANDLE ASSY.
19	1666256	1	ROD, Shift, Upper
20 21	1666255	1	ROD, Shift, Lower
22	1918447	3 2	PIN Cotter
23	1931317	3	BOLT, Carriage, 1/4-20 x 3/4
24	916168	ა 1	PIN, Roll, 1/8 x 3/4
25	1668186 1931333	i	WORM, Chute
26	1611911	i	BOLT, Carriage, 5/16-18 x 3/4
27	1924940	2	SUPPORT, Worm
28	1668188	2	WASHER, Flat, 13/32
29	1930594	2	GEAR, Universal CAPSCREW, Hex Hd., 1/4-20 x 3/4
30	1612167	1	HANDLE, Clutch, L.H.
31	1611910	i	SUPPORT, Universal Gear
32	1668187	i	ROD, Chute Worm
33	1668189	1	ROD, Chute Control
34	1668190	1	KNOB, Spinner
35	1960093	1	PALNUT
36	1674567	1	PIVOT ROD ASSY.
37	1668185	5	BUSHING, Plastic
38	1924361	1	WASHER
39	1668050	1	BRACKET, Shift Control
40	1668525	1	ROD, Clutch-Lower, Auger
41	1668526	1	ROD, Clutch-Lower, Traction
42	1707452	1	SPRING
43	1916621	2	NUT, Hex, #10-24, R.H.
44	108775	2	TURNBUCKLE
45	928704	2 2	NUT, Hex, #10-24, L.H.
46	1671041	2	GRIP, Handle Bar
47 40	1704255	2	CLUTCH LEVER ASSY.
48 40	1668121	2	ROD, Clutch-Upper
49 50	1612432	4	SCREW, Taptite, #10-24 x 1
50 51	1612165 1668608	1 2	HANDLE, Clutch R.H.
51 52	1918452	1	GRIP, Clutch
52 53	1669323	1	PIN, Cotter, 1/8 x 1
55 54	1705899	1	SPRING, Extension GUIDE, Control
55	1677453	1	GUIDE, Control
56	1701342	i	ROD, Control SPRING
57	1715898	1	
58	1678579	1	LATCH, Control SPACER, Special
59	1921221	i	CAPSCREW, Hex Hd., 5/16-18 x 1-1/2
60	1931277	6	NUT, Hex, Flange Whizlock, 5/8-18

A-\*\*1973 Apply Locklite to Ref, No. 1 and Retainer (Ref. No. 7) to be on inside of frame. torque to 8-10 ft. lbs. Tighten when all parts are tight against shoulder of hub (Ref. No. 17). 10 Apply Loctite to screws (Ref. No. 12). Retainer (Ref. No. Torque to 55-60 7) to be on outside in. Jbs. (2 places). of frame. Coat with lighweight machine oil. Relainer (Ref. No. 7) to be on outside of frame. Apply Loctite, Let cure 8 hrs. and check Torque to 20 ft. lbs. Retainer (Ref. No. 7) to be on outside of frame. Remove all play out of axle by moving axle to Hook long end of spring left, move set collar (Ref. No. 20) into top (Ref. No. 45) to the hole of pivot arm assy. right to take all play (Ref. No. 25) & short out of pivot arm assy. end into hole in frame Torque to (Ref. No. 25) and 10-14 ft. [bs. Torque to tighten. Before making 18-21 ft. lbs. this adjustment be sure tie bar support (Ref. No. 45, Frame Group) is installed between frame sides. Bellcrank (Ref. No. 42) With hub (Ref. No. 24) must pivot freely. away from pivot arm assy. (Ref. No. 25), tighten so that all play is taken out of drive disc.( Ref. No. 36 35) but is still free to rotate. Hook one end of spring in hole in Ref. No. 30, hook other end through upper left hand corner slot in frame. Pack groove in Ref. No. 32 with grease. NOTE: Use standard hardware torque spec, chart unless

otherwise noted.

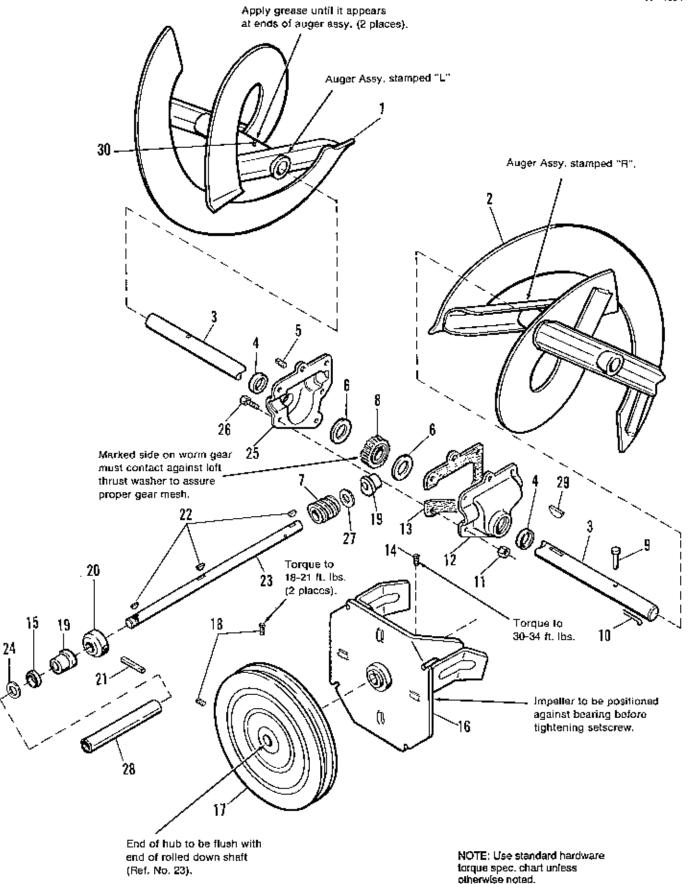


Ref.	Part		
No.	No.	Qty.	Description
1	1921959	1	CAPSCREW, Hex Hd., 1/4-20 x 5/8
2	1916964	1	LOCKWASHER, 1/4
3	1612160	1	JACKSHAFT
4	1705897	4	BEARING
5	1917372	10	NUT, Hex, 5/16-18
6	1917356	10	LOCKWASHER, 5/16
7	1667341	4	RETAINER, Bearing
8	1925205	4	CAPSCREW, Hex Hd., 5/16-18 x 5/8
9	1667331	1	SPROCKET, 10 Tooth
10	1667501	1	SPACER
11	1667340	1	SHAFT, Hex
12	1960348	2	SETSCREW, Socket Hd., 1/4-20 x 3/8
13	1667335	1	SET COLLAR
14	1919438	2	NUT, Hex, Lock, 5/16-18
15	1666207	1	PIN, Slide
16	1678956	2	COLLAR, Thrust
17	1665995	1	HUB, Friction Disc
18	1665975	1	DISC, Friction
19	1921332	3	CAPSCREW, Hex Hd., 5/16-18 x 3/4
20	157207	1	SPRING (1691777, 1691778)
	1707002	1	SPRING (1691900, 1691946)
21	1666855	1	BUSHING
22	1668255	1	SPRING
23	1928721	1	SETSCREW, Sq. Hd., 5/16-18 x 1/2
24	1672595	1	PULLEY, Traction
25	1670849	1	ARM ASSY., Pivot w/Bushings
ልሱ	4000408	_	(Incl. Ref. Nos. 21, 26 & 37)
26 27	1666425	2	BUSHING
27	1960353	1	WASHER, Flat, 1/4
28 20	916950	1	NUT, Hex, 3/8-16
29 20	1924856	4	TAPTITE, 5/16-18 x 1/2
30 31	1669256	1	ARM ASSY., Shift w/Bushings (Includes Ref. No. 31
	1669255	1	BUSHING, Ball)
32 33	1666114	1	BUSHING, Spacer
33 34	916965	1	LOCKWASHER, 3/8
3 <del>4</del> 35	1923701	1	CAPSCREW, Hex Hd., 3/8-16 x 2
36	1666230 1666379	1	DISC, Drive
30 37	1665521	1	WASHER
38	1666105	1	BEARING BOD Comme
39	918312	2	ROD, Pivot
40	1918451	2	KEY, Woodruff, 3/16 x 5/8
40 41	1924940	1	PIN, Cotter, 1/8 x 3/4
42	1700473	1	WASHER, Flat, 13/32 BELLCRANK
43	1666106	1	
44	1922127	- :	BUSHING, Pivot
45	8021010	i	CAPSCREW, Hex Hd., 5/16-18 x 1-3/4
46	1928721	i	SET COLLAR
47	1612084	<u> </u>	SETSCREW, Sq. Hd., 5/16-18 x 1/2 AXLE
48	1930570	i	CAPSCREW, Hex Hd., 5/16-18 x 1-1/2
49	1612086	i	GEAR ASSY.
50	1666980	1	CHAIN, Drive
51	1667326	1	GEAR AND BEARING ASSY., 10 Tooth (1691777, 1691778)
	1672775	1	GEAR AND BEARING ASSY., 10 Tooth (1691990, 1691946)
52	1921333	3	CAPSCREW, Hex Hd., 5/16-18 x 1
53	1667330	1	SPROCKET, 36 Tooth
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Ref.	Part		
No.	No.	Qty.	Description
1	1704161	1	DEFLECTOR ASSY.
2	1706085	2	SEAL, Chute
3	1666613	3	HOLDDOWN, Chute
4	1960001	3	SCREW, Hex, Washer Hd., 10-14 x 5/8
5	1931333	2	BOLT, Carriage, 5/16-18 x 3/4
6	1670578	1	KNOB, 4 Arm w/5/16-18 Thd. Insert
7	960210	1	WASHER, Nylon
8	1612184	1	HOUSING ASSY., (24")
9	1612455	1	GUARD, Chute
10	1917356	3	LOCKWASHER, 5/16
11	1960126	2	PUSH NUT, 1/4
12	1668639	2	CAP, Bearing
13	1931332	5	BOLT, Carriage, 5/16-18 x 5/8
14	1612174	1	BLADE, Scraper, (24")
15	1935048	5	LOCKNUT, Flange, 5/16-18
16	1923325	6	CAPSCREW, Hex Flange Whizlock, 5/16-18 x 7/8
17	1923362	6	NUT, Hex, Center Lock, 5/16-18
18	1916950	4	NUT, Hex, 3/8-16
19	1916965	4	LOCKWASHER, 3/8
20	1924940	5	WASHER, Flat, 13/32
21	177434	2	SKID
22	1665980	2	BEARING, Auger
23	1931348	4	BOLT, Carriage, 3/8-16 x 3/4
24	930659	3	NUT, Retainer, 5/16-18
25	108202	1	BEARING, Ball
26	1665982	1	RETAINER, Bearing
27	1925205	3	CAPSCREW, Hex Hd., 5/16-18 x 5/8
28	1667865	3	SPRING

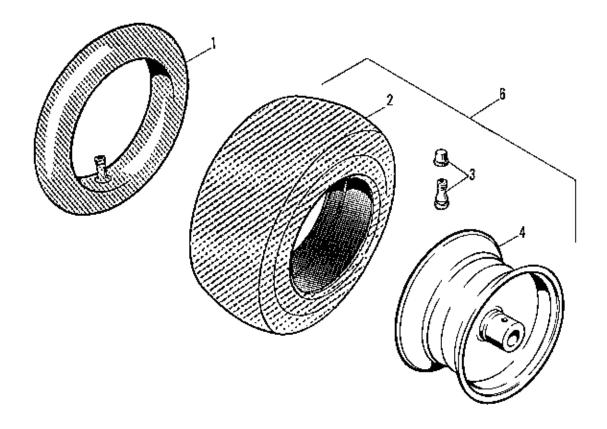




Ref.	Part		
No.	No.	Qty.	Description
1	1612130	1	AUGER ASSY., L.H., (24")
2	1612131	1	AUGER ASSY., R.H., (247)
3	1612117	1	SHAFT, Auger
4	118118	2	SEAL
5	1668971	1	PLUG, Pipe, Tapered, 1/8
6	118315	2	WASHER, Thrust
7	1612142	1	GEAR, Rolled Worm
8	1612141	1	GEAR, Worm
9	1668344	2	PIN, Shear
10	1918447	2	PIN, Cotter, 3/32 x 3/4
11	1923358	6	LOCKNUT, Hex, 1/4-20
12	1612137	1	CASE, Gear, R.H.
13	1612124	t	GASKET
14	1706400	1	SETSCREW, Sq. Hd., 3/8-16 x 1/2
15	1612093	1	SEAL, Oil
16	1612187	1	IMPELLER ASSY.
17	1679293	1	PULLEY, Auger Input
18	1928721	2	SETSCREW, Sq. Hd., 5/16-18 x 1/2
19	1612149	2	BUSHING, Flange
20	1612127	1	COLLAR, Thrust
21	936098	1	PIN, "Drive Lok" Type A, 3/16 x 1-1/2
22	918312	3	KEY, Woodruff, 3/16 x 5/8
23	1612129	1	SHAFT, Worm
24	1960114	1	WASHER
25	1612136	1	CASE, Gear, L.H.
26	1960346	6	CAPSCREW, Hex Hd., 1/4-20 x 7/8
27	<b>168</b> 111	1	WASHER, Thrust
28	1612111	1	TUBE, Worm Shaft
29	930246	1	KEY, Woodruff, 1/4 x 3/4
30	921133	1	GREASE FITTING

NOTE: Use only Simplicity Cold Weather Special Worm Gear Oil in Wor Gear Housing.

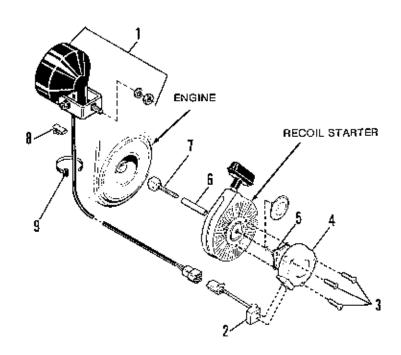
1 - 8 Oz. Bottle, Part #1704636 Case of 12 - 8 Oz. Bottles, Part #1685405





Optional Headlight Kit for Tecumseh Engines

A-\*1988



NOTE: Use standard hardware torque spec, chart unless otherwise noted.



Ref. No.	Part No.	Qty.	Description
1	153038		TUBE
2	1612000	2	TIRE, (Snow Hog)
3	172353	2	VALVE STEM & CAP
4	1677057	2	WHEEL ASSY,
5	1666969	2	PIN, Klik
6	1611997	2	WHEEL & TIRE ASSY. (Incl. Ref. Nos. 1, 3 & 4)

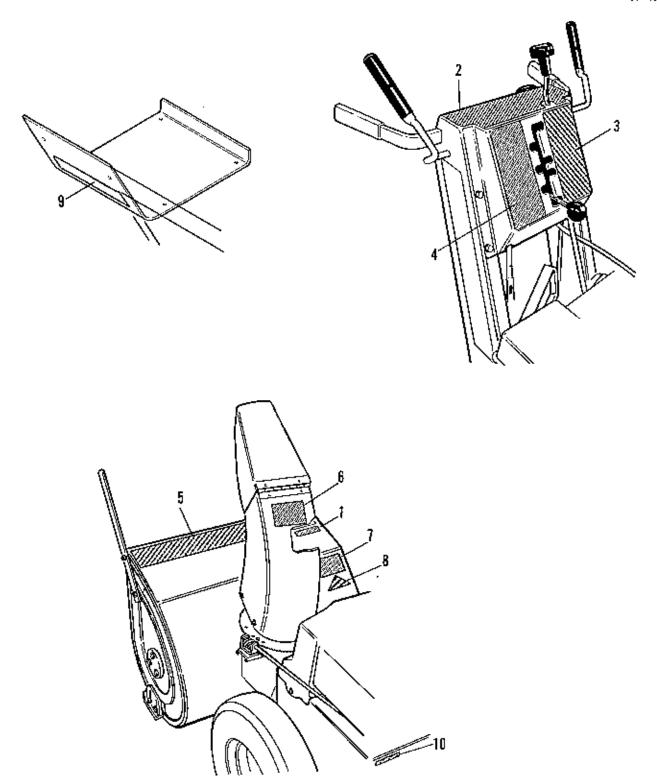
Mfg. No. 1691827, 1685459

# Optional Headlight Kit for Tecumseh Engines

Ref. No.	Part No.	Qty.	Decorletion	
		uty.	Description	
1	1704644	1	LIGHT, Add-On	
2	1704647	1	CONNECTOR, A-C Lighting	
3	* 1704652	3	SCREW, Self-Tapping, 1-1/4*	
	1704653	3	SCREW, Self-Tapping, 1-1/8"	
4	1704646	1	ALTERNATOR	
5	* 1704648	1	SPACER	
6	1704649	1	TUBE, Centering	
7	* 1704642	1	SHAFT, Alternator, 3-1/2°	
	1704641	1	SHAFT, Alternator, 3"	
8	930222	1	CUP	
9	925094	1	TIE, Wire	

<sup>\*</sup>Not used on 8 HP model.

A-\*\*1717 A-\*\*1994





Ref. No.	Part No.	Qty.	Description
1	1704259	1	DECAL, Housing, 860S (1691778)
	1704263	1	DECAL, Housing, 860SE (1691777)
2	1701591	1	DECAL, Dash (1691777, 1691778)
	1705905	1	DECAL, Dash (1691900, 1691946)
3	1704232	1	DECAL, Shift Pattern, L.H.
4	1704231	1	DECAL, Shift Pattern, R.H.
5	1704264	1	DECAL, Auger, Simplicity Logo
	1708781	1	DECAL, Auger, Sno-Away 860
6	1677488	1	DECAL, Danger, Blower
7	1677485	1	DECAL, Danger, Auger
8		1	DECAL, OPEI (Not Serviced)
9	1709061	1	DECAL, Touch Up Paint
10		1	I.D. PLATE (Not Serviced)

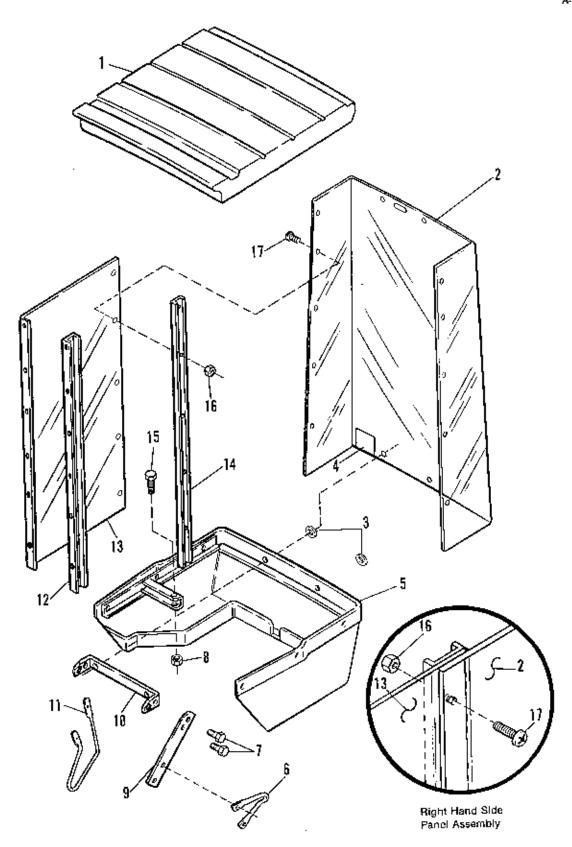
#### SAFETY DECALS



Ref. No. 6



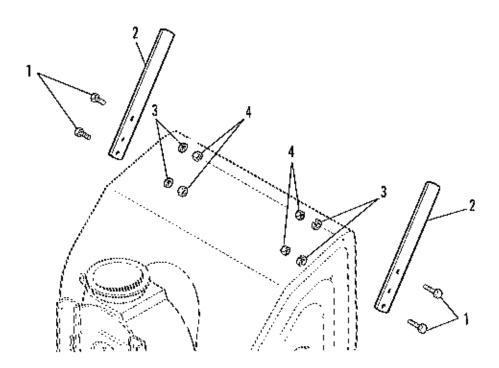
Ref. No. 7



NOTE: Use standard hardware torque spec. chart unless otherwise noted.



Ref. No.	Part No.	Qty.	Description		
1	1668887	1	COVER, Top		
2	1668886	1	PANEL, Front		
3	1921319	3	WASHER, Flat, 9/32		
4	1669127	1	DECAL, Cleaning Instructions		
5	1668869	1	SHROUD, Lower		
6	1669090	1	GUIDE, Rope		
7	1923341	4	CAPSCREW, Hex Hd., 1/4-20 x 3/4		
8	1924433	2	LOCKNUT, Nylon, 5/16-18		
9	1668851	2	SUPPORT, Side		
10	1668852	1	SUPPORT, Front		
11	1669150	2	ROD, Skid		
12	1611730	2	CHANNEL, Side		
13	1668884	2	PANEL, Side		
14	1611731	1	SUPPORT ASSY., L.H.		
	1611732	1	SUPPORT ASSY., R. H. (not shown)		
15	1922127	2	CAPSCREW, Hex Hd., 5/16-18 x 1-3/4		
16	1920397	37	LOCKNUT, Nylon, 1/4-20		
17	1935945	33	SCREW, Phil. Truss Hd., 1/4-20 x 3/4		



Ref. No.	Part No.	Qty.	Description	
1	1921332	4	CAPSCREW, Hex Hd., 5/16-18 x 3/4	
2	1668171	2	CUTTER, Drift	
3	1917356	4	LOCKWASHER, 5/16	
4	1917372	4	NUT, Hex, 5/16-18	

## TORQUE SPECIFICATIONS FOR STANDARD MACHINE HARDWARE TOLERANCE ±20%

SIZE	SAE GI	SAE GRADE #2		SAE GRADE #5		SAE GRADE #8	
	ln./Lbs. Ft./Lbs.	Nm.	in./Lbs. Ft./Lbs.	Nm,	In./Lbs. Ft./Lbs.	Nm.	
8-32	19	2.1	30	3.4	41	4.6	
8-36	20	2.3	31	3.5	43	4.9	
10-24	27	3.1	43	4.9	60	6.8	
10-32	31	3.5	49	5.5	68	7.7	
1/4-20	66	7.6	8	10.9	12	16.3	
1/4-28	76	8.6	10	13.6	14	1 <b>9</b> .	
5/16-18	11	15.	17	23.1	25	34.	
5/16-24	12	16.3	19	25.8	25	34.	
3/8-16	20	27.2	30	40.8	45	61.2	
3/8-24	23	31.3	35	47.6	50	68.	
7/16-14	30	40.8	50	68.	70	95.2	
7/16-20	35	47.6	55	74.8	80	108.8	
1/2-13	50	68.	75	102.	110	149.6	
1/2-20	55	74.8	90	122.4	120	163.2	
9/16-12	65	88.4	110	149.6	150	204.	
9/16-18	75	102.	120	163.2	170	231.2	
5/8-11	90	122.4	150	204.	220	299.2	
5/8-18	100	136.	180	244.8	240	326.4	
3/4-10	160	217.6	260	353.6	386	525.	
3/4-16	180	244.8	300	408.	420	571.2	
7/8-9	140	190.4	400	544.	600	816.	
7/8-14	155	210.8	440	598.4	660	897.6	
1-8	220	299.2	580	788.8	900	1,224.	
1-12	240	326.4	640	870.4	1,000	1,360.	

#### NOTE:

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- 2. Recommended seating torque values for locknuts:
  - a. For prevailing torque locknuts use 65% of grade 5 torques.
  - b. For flange whizlock nuts (and screws) use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings all torque values must meet this specification.

#### BOLT HEAD MARKING S.A.E. GRADE:





